

this section. Quick freeze for fruits and vegetables imported into the United States or moved interstate from Hawaii or Puerto Rico must be conducted in accordance with §§ 318.13–4a, 318.58–4a, and 319.56–2c, respectively.

(b) Quick freeze is not an authorized treatment for:

(1) Avocados with seeds from South America, Central America, or Mexico.

(2) Citrus with peel from Afghanistan, Andaman Islands, Argentina, Bangladesh, Brazil, Cambodia, China (People's Republic of), Comoros, Cote d'Ivoire, Federated States of Micronesia, Fiji Islands, Home Island in Cocos (Keeling) Islands, Hong Kong, India, Indonesia, Japan and adjacent islands, Korea, Laos, Madagascar, Malaysia, Maldives, Mauritius, Mozambique, Myanmar, Nepal, Oman, Pakistan, Palau, Papua New Guinea, Paraguay, Philippines, Reunion Islands, Rodrigues Islands, Ryukyu Islands, Saudi Arabia, Seychelles, Sri Lanka, Taiwan, Thailand, Thursday Island, United Arab Emirates, Uruguay, Vietnam, Yemen, and Zaire.

(3) Mangoes with seeds from Barbados, Dominica, French Guiana, Guadeloupe, Martinique, St. Lucia, and all countries outside of North, Central, and South America and their adjacent islands (which include the Caribbean Islands and Bermuda).

(4) Corn-on-the-cob from Albania, Algeria, Bosnia and Hercegovina, Croatia, Cyprus, Egypt, France, Greece, Israel, Italy, Lebanon, Libya, Malta, Macedonia, Morocco, Sardinia, Serbia and Montenegro, Slovenia, Spain, Syria, Tunisia, and Turkey.

(5) Black currants unless authorized in an import permit to specified areas.

(c) Quick freeze may damage commodities and is recommended for thick-skinned fruits and vegetables, such as durian and coconut, that will be processed into another form (*e.g.*, for puree, juice, or mashed vegetables).

[70 FR 33269, June 7, 2005, as amended at 70 FR 41092, July 15, 2005]

§ 305.18 Quick freeze treatment schedule.

(a) *T110*. (1) Initially, lower the commodity's temperature to 0 °F or below.

(2) Hold the temperature of the commodity at 20 °F or below for at least 48 hours.

(3) The commodity may be transported during the 48-hour treatment period, but the temperature must be maintained at 20 °F or below prior to release.

(4) The fruits and vegetables may not be removed from the vessel or vehicle transporting them until an inspector has determined that they are in a satisfactory frozen state upon arrival. If the temperature of the fruits or vegetables in any part of a shipment is found to be above 20 °F at the time of inspection upon arrival, the entire shipment must remain on board the vessel or vehicle under such safeguards as may be prescribed by the inspector until the temperature of the shipment is below 20 °F, or the shipment is transported outside the United States or its territorial waters, or is otherwise disposed of to the satisfaction of the inspector.

(b) [Reserved]

§ 305.19 [Reserved]

Subpart—Heat Treatments

§ 305.20 Treatment requirements.

(a) *Certified facility*. The treatment facility must be certified by APHIS. Recertification is required annually, or as often as APHIS directs, depending upon treatments performed, commodities handled, and operations conducted at the facility. In order to be certified, a heat treatment facility must:

(1) Have equipment that is capable of adequately circulating air or water (as relevant to the treatment), changing the temperature, and maintaining the changed temperature sufficient to meet the treatment schedule parameters.

(2) Have equipment used to record, monitor, or sense temperature, maintained in proper working order.

(3) Keep treated and untreated fruits, vegetables, or articles separate so as to prevent reinfestation and spread of pests.

(b) *Monitoring*. Treatment must be monitored by an official authorized by APHIS to ensure proper administration

of the treatment. An official authorized by APHIS approves, adjusts, or rejects the treatment.

(c) *Compliance agreements.* Facilities located in the United States must operate under a compliance agreement with APHIS. The compliance agreement must be signed by a representative of the heat treatment facilities located in the United States and APHIS. The compliance agreement must contain requirements for equipment, temperature, water quality, circulation, and other measures for performing heat treatments to ensure that treatments are administered properly. Compliance agreements must allow officials of APHIS to inspect the facility to monitor compliance with the regulations.

(d) *Work plans.* Facilities located outside the United States must operate in accordance with a work plan. The work plan must be signed by a representative of the heat treatment facilities located outside the United States the national plant protection organization of the country of origin (NPPO), and APHIS. The work plan must contain requirements for equipment, temperature, water quality, circulation, and other measures to ensure that heat treatments are administered properly. Work plans for facilities outside the United States must include trust fund agreement information regarding payment of the salaries and expenses of APHIS employees on site. Work plans must allow officials of the NPPO and APHIS to inspect the facility to monitor compliance with APHIS regulations.

(e) *Treatment procedures.* (1) Before each treatment can begin, an official authorized by APHIS must approve the loading of the commodity in the treatment container.

(2) Sensor equipment must be adequate to monitor the treatment, its type and placement must be approved by an official authorized by APHIS, and the equipment must be tested by an official authorized by APHIS prior to beginning the treatment. Sensor equipment must be locked before each treatment to prevent tampering.

(3) Fruits, vegetables, or articles of substantially different sizes must be

treated separately; oversized fruit may be rejected by an official authorized by APHIS.

(4) The treatment period begins when the temperature specified by the treatment schedule has been reached. An official authorized by APHIS may abort the treatment if the facility requires an unreasonably long time to achieve the required temperature.

§ 305.21 Hot water dip treatment schedule for mangoes.

Mangoes may be treated using schedule T102-a:

(a) Fruit must be presorted by weight class. Treatment of mixed loads is not allowed.

(b) The mangoes must be treated in the country of origin at a certified facility under the monitoring of an official authorized by APHIS. Prior to each use, an official authorized by APHIS must test and determine that the treatment tank, temperature recording device, and other monitoring equipment of the tank are adequate to conduct the treatment.

(c) Water in the treatment tank must be treated or changed regularly to prevent microbial contamination. Chlorinated water must be used.

(d) Pulp temperature must be 70 °F or above before starting the treatment.

(e) Fruit must be submerged at least 4 inches below the water's surface.

(f) Water must circulate constantly and be kept at 115 °F or above throughout the treatment with the following tolerances:

(1) During the first 5 minutes of a treatment, temperatures below 113.7 °F are allowed if the temperature is at least 115 °F at the end of the 5-minute period.

(2) For treatments lasting 65–75 minutes, temperatures may fall no lower than 113.7 °F for no more than 10 minutes under emergency conditions.

(3) For treatments lasting 90–110 minutes, temperatures may fall no lower than 113.7 °F for no more than 15 minutes under emergency conditions.

(g) Dip time is as follows:

(1)